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DDD DDD	TTT	SSS	DDD DDD	TIT	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	iii	RRR RRR
DDD DDD	III	SSS	DDD DDD	III	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TIT	RRR RRR
DDD DDD	tit	22222222	000 000	titi	RRRRRRRRRRRRR
DDD DDD	TTT	SSSSSSSS	DDD DDD	ŤŤŤ	RRRRRRRRRRRR
DDD DDD	III	SSSSSSSS	DDD DDD	III	RRRRRRRRRRR
DDD DDD	III	SSS	DDD DDD	ĪĪĪ	RRR RRR
DDD DDD	111	SSS	DDD DDD	111	RRR RRR RRR RRR
DDD DDD	ήή	ŠŠŠ	DDD DDD	ttt	RRR RRR
DDD DDD	TTT	SSS	DDD DDD	TTT	RRR RRR
DDD DDD	III	SSS	DDD DDD	III	RRR RRR
DDDDDDDDDDDD	III	22222222222	DDDDDDDDDDD	III	RRR RRR
DDDDDDDDDDDDDDDD	111	\$		111	RRR RRR

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		\$				

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16-SEP-1984 01:24:11 VAX/VMS Macro V04-00

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Page

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TST1

TST\$DTCOMMON - COMMON ROUTINES FOR DTS/DTR .TITLE

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: FACILITY: DTS/DTR DECNET TEST PACKAGE

ABSTRACT: MISCELLANEOUS ROUTINES COMMON TO DTS/DTR.

ENVIRONMENT: DTS/DTR RUN IN USER MODE AND REQUIRE NETWORK PRIVILEGE.

AUTHOR: JAMES A. KRYCKA, CREATION DATE: 11-AUG-77

MODIFICATIONS:

V02-003 SGD2003 Scott G. Davis 17-Nov-1980 Add check for new code - SS\$_LINKABORT SGD2002 Scott G. Davis 29-Sep-1980 V02-002 SGD2002 Get around problem with multiple outstanding I/O

0000

NONE

EQUATED SYMBOLS:

NONE

NONE

OWN STORAGE:

TST V04

20E4 8F

0830 8F

0294 BF

50

```
- COMMON ROUTINES FOR DTS/DTR
TST$CHECK_SS - CHECK SYSTEM SERVICE STAT
                                                                      16-SEP-1984 01:24:11
5-SEP-1984 00:21:57
                                                                                                           VAX/VMS Macro V04-00
[DTSDTR.SRC]DTCOMMON.MAR;1
                                                      TSTSCHECK_SS - CHECK SYSTEM SERVICE STATUS CODE
 00000000
0000
0000
0000
                                                      TST$CODE
                                                                                 NOWRT
                           C::
                                                                                                : SYMBOL FOR DEBUGGING PURPOSES
                              FUNCTIONAL DESCRIPTION:
        TST$CHECK SS CHECKS THE STATUS CODE IN RO FOLLOWING A CALL TO A SYSTEM SERVICE. IF FAILURE (EXCEPT AS NOTED BELOW) IS INDICATED THE IMAGE IS TERMINATED WITH RO AS THE EXIT COMPLETION CODE.
                      888888888889999999999999
                              CALLING SEQUENCE:
                                        BSB/JSB TST$CHECK_SS
                               INPUT PARAMETERS:
                                         RO
                                                      SYSTEM SERVICE STATUS CODE
                               IMPLICIT INPUTS:
                                         NONE
                              OUTPUT PARAMETERS:
                                         R1
                                                      TST$CHECK_SS COMPLETION CODE
                               IMPLICIT OUTPUTS:
                                         NONE
                     100
101
                              COMPLETION CODES:
                                                      0 = STATUS CODE IS ABORT (SS$ ABORT) OR
STATUS CODE IS CANCEL (SS$ CANCEL) OR
STATUS CODE IS REJECT (SS$ REJECT) OR
STATUS CODE IS FILE NOT ACCESSED (SS$ FILNOTACC)
                                         R1
                     105
                     106
107
                                                       1 = SUCCESS
                     108
                     109
                              SIDE EFFECTS:
                                        IF THE STATUS CODE INDICATES FAILURE (EXCEPT AS NOTED ABOVE). THE IMAGE IS TERMINATED WITH THE STATUS CODE AS THE EXIT COMPLETION CODE.
                     114
115
                           TSTSCHECK_SS::
                                                                                                   CONTROL POINT
                                                                                                   SET RETURN CODE TO SUCCESS
                     118
119
 DO B1 13 B1 13 B1 13
                                                                                                  No. Check for aborted I/O
If EQL nonfatal
                                         CMPW
                                                       RO, #<SS$_LINKABORT&*XFFFF>
                     120
121
122
123
124
125
126
                                         BEQLU
                                                                                                  NO, CHECK FOR ABORTED 1/O
NON-FATAL IF ABORTED
NO, CHECK FOR CANCELLED 1/O
NON-FATAL IF CANCELLED
NO, CHECK FOR CONNECT REJECTED
NON-FATAL IF CONNECT REJECTED
                                         CMPW
                                                       RO,#<SS$_ABORT&^XFFFF>
                                         BEQLU
                                                       RO. # < SS$_CANCEL& * XFFFF>
                                         CMPW
                                         BEQLU
                                                      RO. #<SS$_REJECT&*XFFFF>
 B1
                                         CMPW
                                         BEQLU
```

TST

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010 010 010

910

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TST

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PSE

Pha Ini Com Pas Sym Pas Sym Pse Cro

The 476 The 716 29

Mac \$2 \$2 TOT 989

The MAC

827A 8F

81B0 8F

09

51

```
- COMMON ROUTINES FOR DTS/DTR 16-SEP-1984 01:24:11 VAX/VMS Macro V04-00 TST$CHECK_RMS - CHECK RMS COMPLETION COD 5-SEP-1984 00:21:57 [DTSDTR.SRC]DTCOMMON.MAR;1
                                        .SBTTL TSTSCHECK_RMS - CHECK RMS COMPLETION CODE .PSECT TSTSCODE NOWRT
                          : FUNCTIONAL DESCRIPTION:
                                       TST$CHECK RMS CHECKS THE COMPLETION CODE IN RO FOLLOWING A CALL TO RMS. IF FAILURE (EXCEPT AS NOTED BELOW) IS INDICATED THE IMAGE IS TERMINATED WITH RO AS THE EXIT COMPLETION CODE.
                             CALLING SEQUENCE:
                                       BSB/JSB TST$CHECK_RMS
                             INPUT PARAMETERS:
                                       RO
                                                     RMS COMPLETION CODE
                             IMPLICIT INPUTS:
                                       NONE
                             OUTPUT PARAMETERS:
                                       R1
                                                    TST$CHECK_RMS COMPLETION CODE
                    160
                             IMPLICIT OUTPUTS:
                                       NONE
                             COMPLETION CODES:
                                                     0 = RMS COMPLETION CODE IS END-OF-FILE (RMS$_EOF) OR RMS COMPLETION CODE IS TIME-OUT (RMS$_TMO)
                                                     1 = SUCCESS
                             SIDE EFFECTS:
                                       IF THE RMS COMPLETION CODE INDICATES FAILURE (EXCPET AS NOTED ABOVE) THE IMAGE IS TERMINATED WITH RO AS THE EXIT COMPLETION CODE.
                          TST$CHECK RMS::
                                                                                                CONTROL POINT
                                                                                                SET RETURN CODE TO SUCCESS WAS RMS FUNCTION SUCCESSFUL?
                                                     #1 .R1
R0.20$
 DO E8
B1
13
B1
13
                                        BLBS
                                                                                                NO, CHECK FOR END-OF-FILE
NON-FATAL IF END-OF-FILE
NO, CHECK FOR TIME-OUT
NON-FATAL IF TIME-OUT
TERMINATE THE IMAGE!!
SET RETURN CODE TO FAILURE
                                                     RO. #<RMS$_EOF&^XFFFF>
                                        CMPW
                                        BEQLU
                                                     10$
                                                     RO. #<RMS$_TMO&*XFFFF>
                                        CMPW
                                       BEQLU
SEXIT_S
                    184
185
186
                                                     RO
 D4
05
                          10$:
                                        CLRL
                                        RSB
                                                                                                EXIT
```

F 12

02 A0 60 AB

```
- COMMON ROUTINES FOR DTS/DTR
TST$CHECK_IOSB - CHECK I/O STATUS BLOCK
                                                                                                                       VAX/VMS Macro V04-00
EDTSDTR.SRCJDTCOMMON.MAR; 1
                                                                                                                                                                            Page
                                             .SBTTL TSTSCHECK_IOSB - CHECK 1/O STATUS BLOCK CODE .PSECT TSTSCODE NOWRT
 188
189
190
191
192
193
194
195
196
                              : FUNCTIONAL DESCRIPTION:
                                             TST$CHECK IOSB CHECKS THE STATUS CODE IN THE SPECIFIED I/O STATUS BLOCK FOLCOWING A CALL TO THE QIO SYSTEM SERVICE. IF FAILURE (EXCPET AS NOTED BELOW) IS INDICATED, THE IMAGE IS TERMINATED WITH THE I/O STATUS CODE AS THE EXIT COMPLETION CODE.
                       CALLING SEQUENCE:
                                             BSB/JSB TST$CHECK_IOSB
                                  INPUT PARAMETERS:
                                             RO
                                                            ADDRESS OF IOSB TO EXAMINE
                                  IMPLICIT INPUTS:
                                             NONE
                                  OUTPUT PARAMETERS:
                                                            I/O STATUS CODE FROM IOSB
TST$CHECK IOSB COMPLETION CODE
# BYTES TRANSFERRED FROM IOSB
                                              RO
                                             R1
R2
                                  IMPLICIT OUTPUTS:
                                             NONE
                                  COMPLETION CODES:
                                                            0 = I/O STATUS CODE IS ABORT (SS$ ABORT) OR
STATUS CODE IS CANCEL (SS$ CANCEL) OR
STATUS CODE IS REJECT (SS$ REJECT) OR
STATUS CODE IS FILE NOT ACCESSED (SS$ FILNOTACC)
                                             R1
                                                             1 = SUCCESS
                                  SIDE EFFECTS:
                                             IF THE I/O STATUS CODE INDICATES FAILURE (EXCEPT AS NOTED ABOVE). THE IMAGE IS TERMINATED WITH THE STATUS CODE AS THE EXIT COMPLETION CODE.
                              TSTSCHECK TOSB::
                                                                                                             CONTROL POINT
EXTRACT BYTE COUNT
EXTRACT I/O STATUS CODE
                                                           2(RO),R2
(RO),RO
TST$CHECK_SS
                                              MOVZWL
```

: CHECK 1/O STATUS CODE

....

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- COMMON ROUTINES FOR DTS/DTR TST\$QIOW - NETWORK QIO ROUTIN NETWORK QIO ROUTINES

0000005

VAX/VMS Macro V04-00 EDTSDTR.SRCJDTCOMMON.MAR; 1

(6)

.SBTTL TSTSQIOW - .PSECT TSTSCODE NETWORK QIO ROUTINES

FUNCTIONAL DESCRIPTION:

BOTH TST\$QIOW AND TST\$QIOAST COMPLETE BUILDING A QIO PARAMETER BLOCK AND ISSUE A QIO REQUEST FOR THE ESTABLISHED COMMUNICATIONS LINK OR FOR THE ASSOCIATED MAILBOX. THE FUNCTION CODE PARAMETER DETERMINES WHICH OF SEVERAL QIO PARAMETER BLOCKS IS USED. TST\$QIOW ISSUES A \$QIOW_G REQUEST AND TST\$QIOAST ISSUES A \$QIO_G WITH AST REQUEST.

CALLING SEQUENCE:

BSB/JSB TST\$QIOW BSB/JSB TST\$QIOAST

H 12

INPUT PARAMETERS:

INTERNAL FUNCTION CODE: ALSO SPECIFIES EFN TO USE P1 PARAMETER; NOTE: NOT IMPLEMENTED AT PRESENT R2 R3

P2 PARAMETER

ADDRESS OF AST ROUTITNE (FOR TST\$QIOAST ONLY)

NOWRT

IMPLICIT INPUTS:

SEVERAL CONTIGUOUS QIO PARAMETER BLOCKS BEGINNING AT TST\$PARAMETER.

OUTPUT PARAMETERS:

RO-R1 DESTROYED

IMPLICIT OUTPUTS:

REFERENCED QIO PARAMETER BLOCK (OFFSET FROM TST\$PARAMETER) IS MODIFIED.

COMPLETION CODES:

NONE

SIDE EFFECTS:

ON COMPLETION OF THE QIO ISSUED BY TST\$QIOAST, AN AST ROUTINE WILL BE EXECUTED.

QIO AND WAIT ROUTINE

TST\$QIOW::

QIO COMMON QIOS_ASTADR(RO) CONTROL POINT EXECUTE COMMON SET-UP CODE ZERO BOTH AST ADDRESS AND AST PARAMETER LONGWORDS

BSBB CLRQ

TST\$DTCOMMON V04-000		- COMMON ROUTIN	I 12 ES FOR DTS/DTR 16-SEP-19 JORK QIO ROUTINES 5-SEP-19	84 01:24:11 VAX/VMS Macro V04-00 Page 84 00:21:57 [DTSDTR.SRC]DTCOMMON.MAR;1	8 (6)
		005A 299 0061 300 05 0064 301 0065 303 0065 304	SQIOW_G (RO) CHECK_SS RSB	: ISSUE THE QIO AND WAIT REQUEST : CHECK STATUS CODE : EXIT	
	14 A0 55 18 A0 50	0065 305 0065 306 0065 308 10 0065 309 00 0067 310 00 0066 311	TST\$QIOAST:: BSBB QIO COMMON MOVL R5.QIOS_ASTADR(R0) MOVL R0,QIOS_ASTPRM(R0) \$QIO G (R0) CHECK_SS RSB	CONTROL POINT EXECUTE COMMON SET-UP CODE UPDATE AST ADDRESS UPDATE AST PARAMETER WITH ADDRESS OF THIS PARAMETER BLOCK ISSUE QIO WITH AST REQUEST CHECK STATUS CODE EXIT	
	51 52 0D 50 0000 CF 41 08 A0 0000 CF 52 08 A0 0000 CF 20 A0 54	05 0076 314 05 0079 315 007A 316 007A 318 007A 329 007A 321 007A 322 007E 323 007E 323 007E 323 007E 325 3C 008A 327 12 008C 328 3C 008E 329 0094 331 0098 332	BNEQU 10\$	SET-UP FUNCTIONS : CONTROL POINT	

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0000 CF 0000 CF 50

0000°CF

```
- COMMON ROUTINES FOR DTS/DTR
TSTBEXAM_MAIL - EXAMINE MAILBOX MESSAGE
                                                                                            VAX/VMS Macro V04-00 [DTSDTR.SRC]DTCOMMON.MAR;1
                                                                                                                                               (7)
                                              TSTSEXAM_MAIL - EXAMINE MAILBOX MESSAGE TSTSCODE NOWRT
FUNCTIONAL DESCRIPTION:
                                   TSTSEXAM_MAIL DISECTS A MAILBOX MESSAGE INTO ITS VARIOUS
                                   FIELDS.
                          CALLING SEQUENCE:
                                   BSB/JSB TSTSEXAM_MAIL
                          INPUT PARAMETERS:
                                   NONE
                          IMPLICIT INPUTS:
                                   TSTSGB_MAILBUF
TSTSGQ_MAILIOSB
                          OUTPUT PARAMETERS:
                                   RO-R1
                                               DESTROYED
                                              MAILBOX MESSAGE CODE
ADDRESS OF RECEIVED MAILBOX DATA LESS HEADER STORED AS A
COUNTED ASCII STRING
                          IMPLICIT OUTPUTS:
                                   TSTSGW_MAILCODE
TSTSGW_DEV_UNIT
TSTSGT_DEV_NAME
TSTSGT_MAILDATA
                          COMPLETION CODES:
                                   NONE
                          SIDE EFFECTS:
                                   NONE
                       TSTSEXAM MAIL::
PUSHR
                                                                                     CONTROL POINT
                                              #^M<R2,R3,R4,R5>
W^TST$GB_MAILBUF,R1
(R1)+,R6
R6,W^TST$GW_MAILCODE
(R1)+,W^TST$GW_DEV_UNIT
(R1),R0
                                                                                     SAVE REGISTERS
                                                                                     GET ADDRESS OF MAILBOX BUFFER
                                   MOVAB
                                                                                     SAVE MAILBOX MESSAGE CODE
                                   MOVZWL
                                   MOVE
                                                                                     STORE DEVICE DEV UNIT NUMBER
GET LENGTH OF DEVICE NAME
COUNTED ASCII STRING
                                   MOVW
                                   MOVZBL
                                              RO, (R1), WATSTSGT_DEV_NAME
                                   MOVC3
                                                                                    STORE DEVICE NAME STRING GET LENGTH OF DATA PORTION OF
                                   MOVZBL
                                               (R1),R0
```

J 12

TST\$DTCOMMON				- CO	MMON RI	OUTINES FOR D	TS/DTR MAILBOX	K 12 MESSAGE	-SEP-1984 -SEP-1984	81:34:1	1 VAX/VMS Macro VO4-00 Pa	ge 10 (7
	57 67	0000	50 50 50 30	06 9E 28 8A 05	0088 0080 0002 0002 0006 0008	392 393 394 395 396 397 398	INCL MOVAB MOVC3 POPR RSB	RO W^TST\$GT_MA RO,(R1),(R7 W^M <r2,r3,r< td=""><td></td><td>GE T ST RE</td><td>T ADDRESS OF COUNTED STRING O STORE MESSAGE LESS HEADER ORE MAILBOX MESSAGE LESS HEADER STORE REGISTERS</td><td></td></r2,r3,r<>		GE T ST RE	T ADDRESS OF COUNTED STRING O STORE MESSAGE LESS HEADER ORE MAILBOX MESSAGE LESS HEADER STORE REGISTERS	

TA

CHECK_SS

BNEQU RSB

WATSTEGO MAILIOSB+2 TSTEFLUSH MAIL

OOFA

00FE 0100

CHECK STATUS CODE DID WE RECEIVE ANYTHING?

YES, READ AGAIN

BSBW

WATSTSPRINT_FAO

PRINT FAO STRING

FFC3

CONSTRUCT PARAMETER LIST FOR FAO ON THE STACK

; EXIT

018F 018F

598 505:

RET

(10)

CLRL

EDIV

105:

20\$:

BEQLU

MOVC3

SOBGTR

MOVC3 POPR

RSB .END R7, (R6), (R3)
R8,10\$
R9, (R6), (R3)
WILL PATTERN FIT?
R9, (R6), (R3)
WMCR2, R3, R4, R5, R6, R7, R8, R9>; RESTORE REGISTERS
EXIT

WILL PATTERN FIT? NO, FILL REMAINDER OF BUFFER

59

58

63

63

54

66

F9

66 03FC

7B 13 28 F5 28 BA 05

01AC 01B0

0184 0185

**1

TS'

16-SEP-1984 01:24:11 VAX/VMS Macro V04-00 5-SEP-1984 00:21:57 EDTSDTR.SRCJDTCOMMON.MAR;1

Psect synopsis!

PSECT name Allocation PSECT No. Attributes NOWRT NOVEC BYTE NOWRT NOVEC BYTE ABS LCL NOSHR NOEXE NORD LCL NOSHR EXE RD LCL NOSHR EXE RD 00000000 ABS USR CON \$ABS\$ 00000000 000001B5 NOPIC NOPIC USR CON TST\$CODE

E 13

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	33	00:00:00.12	00:00:00.60
Command processing	142 299	00:00:00.79	00:00:04.50
Symbol table sort	0	00:00:01.08	00:00:01.23
Pass 2	115	00:00:02.33	00:00:04.64
Symbol table output Psect synopsis output	2	00:00:00.01	00:00:00.09
tross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	602	00:00:13.40	00:00:34.42

The working set limit was 1350 pages.
47661 bytes (94 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 814 non-local and 13 local symbols.
716 source lines were read in Pass 1, producing 18 object records in Pass 2.
29 pages of virtual memory were used to define 27 macros.

! Macro library statistics !

Macro Library name

TST\$DTCOMMON

Psect synopsis

Macros defined

\$255\$DUA28:[DTSDTR.OBJ]DTSDTR.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

19 22

989 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DTCOMMON/OBJ=OBJ\$:DTCOMMON MSRC\$:DTPREFIX/UPDATE=(ENH\$:DTPREFIX)+MSRC\$:DTCOMMON/UPDATE=(ENH\$:DTCOMMON)

0122 AH-BT13A-SE VAX/VMS V4.0

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